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TITLE: STEEL FOR INDUCTION HARDENING EXCELLENT IN HIGH BEARING FATIGUE STRENGTH

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INVENTOR-INFORMATION:

NAME COUNTRY

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ABSTRACT:

PURPOSE: To produce a steel for induction hardening excellent in high bearing fatigue strength.

CONSTITUTION: This <u>steel for induction</u> hardening excellent in high <u>bearing</u> fatigue strength is characterized by subjecting a <u>steel</u> in which the contents of alloy elements are regulated to, by mass, 0.40 to 0.80% C, $\dot{10}3.0\%$ Si, 0.35 to 1.5% Mn, 0.10 to 3.0% Cr and 0.05 to 0.50% \underline{V} , and the balance Fe with inevitable impurities to <u>induction</u> hardening in the temp. range of 950 to 1150iāC surface temp, and thereafter cooling the same in the temp. range from the heating temp. to 200iāC at iÝ50iāC/s rate. Moreover, this <u>steel</u> may contain one or iÝtwo kinds among i $\dot{0}$ 3.0% Ni, i $\dot{0}$ 11.0% Mo, i $\dot{0}$ 9.10.10% Nb, 0.0005 to 0.0050% B, i $\dot{0}$ 0.20% S, i $\dot{0}$ 00.20% Te and i $\dot{0}$ 0.050% Ca sa well.

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